

BUTANE-PROPANE NEWS

ANNUAL INDEX

AGRICULTURE

In Central Washington, LP-Gas Helps Keep Fruit Baskets Overflowing . . . Jan. 15
 LPG Marketers Thank The Rain Gods For Hefty Crop-Drying Market
 In '89 April 25

ALTERNATIVE FUELS/CARBURETION

Alternative Fuel Proponents Hold Road Show In Golden State
 Capitol March 34
 California Bus Officials Unveil Three-Way Alternative Fuel Project . . . Oct. 33
 Enthusiasts Greets Establishment of Vigorous LPG Clean Fuels
 Coalition July 22
 Federal Express Balances Economics and Environment With Its
 Canadian Fleet Nov. 23
 Gillig's Propane-Powered Buses Make Their Debut In Southern
 California July 29
 LPG Clean Fuels Coalition Receives Provocative Input At First
 Meeting Nov. 26
 Phillips Set To Test LPG Vehicles, Expand Marketing Of Fleet
 Fuels April 37
 Phillips 66 Prepares To Test Butane Emissions In Truck Engines . . . Feb. 24
 Propane Earns Stamp Of Approval Over CNG In Dirty Diaper
 Fleet June 32
 Propane Patrol Proves A Money Saver For Florida Law Enforcement
 Agency June 31
 Propane Vehicles Make Heads Turn In Monterey June 30
 Southern California Rapid Transit District Rolls Out CNG Bus Fleet . . . July 14
 There Is A "Fantastic" Application of Propane Hidden Below The
 Surface Sept. 31
 Webb Report Adds Support For Choosing LPG As A Motor Fuel . . . Jan. 20

BEYOND THE MAINS

A Different Perspective March 3
 A Lousy Hand April 3
 Eaten By Whales—Or Is It Sharks? Oct. 3
 Government—The Designer Jan. 3
 Just How Much Clout? July 3
 Let's All Get Together Sept. 3
 Please, Be Reasonable July 7
 Political Smog Feb. 3
 The Economics Of Fear Nov. 3
 They Labor In Anonymity June 3
 We've Only Just Begun Aug. 3
 What Can One Do? Dec. 3
 You May Be The Target May 3

COGENERATION

New Natural Gas Appliance Standards Available From AGA May 12
 Power Plant Will Co-Fire Natural Gas With Landfill Gas, Solid Waste . . . May 12
 Williams To Fire Up Cogeneration Plant With LPG April 14

COMMENT

A Co-Op Is Not A Utility May 16
 An Unexpected Finding April 10
 Belaboring The Obvious Aug. 20
 Beware Electric Cars Invasion May 14
 Hazmat Cargoes: Who's Responsible? Feb. 15
 Needed: More Forward Thinking June 18
 Now, Let's Be Fair March 16
 The Fiasco Of December '89 May 36
 Who Should Punish Whom June 18

ENERGY SPECTRUM/OTHER FUELS

Amoco Opens First Public CNG Fueling Stations Sept. 6
 ENCOAL, DOE Start Construction of New Plant Dec. 16
 Fiat Panda Elettras Rolls On To Production Line Oct. 43
 GM, Enron, Utilities Plan To Build Natural Gas Powered Pickups . . . Sept. 6
 Hercules Engines Developing Natural Gas Units For Delivery Trucks . . . Feb. 14
 LNG-Fueled Plane Developed By Soviets Oct. 12
 Mercedes Finds Promise In Hydrogen-Fueled Auto May 13
 New Battery Packs 30% More Power In A Small Package Feb. 14
 New Process Converts Coal To High-Value Fuels Oct. 12

SCAQMD Pushes To Take Charcoal Lighter Fluid Off The Menu Aug. 40
 Sewage Sludge Converted To Diesel Proposed By Utilities Oct. 12

HISTORY/FORECASTS

EIA Predicts Downturn For Propane As Feedstock April 18
 Entering the 21st Century, PGAC Looks At Marketing And
 Environmental Challenges Aug. 33
 Expect Growth In Marine Imports of LPG For Retail Marketing In
 West June 30
 Robert Rosenberg of GRI Offers Sneak Preview of 90s Technology Jan. 17

INTERNATIONAL

BP Connects Beauty And Brawn In Its U.K. Operations Nov. 21
 Four Corners Of The World Represented At Forum Oct. 28
 Marketing Motor Fuel: LPG's Value Is Almost Universally Recognized . . . Jan. 18
 TET Enters Soligaz Pipeline Game Sept. 35

LEGAL AND INSURANCE

Accident Investigation Dec. 35
 Americans With Disabilities Act, The Oct. 38
 Anti-Piracy Agreement: Important Protection For Propane Retailers . . . Aug. 35
 Arbitration Clause: Can Retailers Take Tort Reform Into Their Own
 Hands? Jan. 8
 Consumer Product Safety Commission, The Feb. 32
 Fisher Controls Issues Notices To Retailers About LPG Regulators . . . Jan. 27
 Four Years Of Lobbying Pay Off In New Rules For Georgia Utilities . . . May 31
 Gas Detectors: The Legal Issues March 46
 Georgia Marketer Kicks Off Efforts To Make Bankruptcy Filing
 Harder Oct. 32
 Good Samaritan, The Sept. 37
 Judges With Courage Apr. 41
 Odorization Lawsuits—Part I May 50
 Odorization Lawsuits, Part II—"Odor Fade" June 40
 Odorization Lawsuits, Part III—The Future Of Odor Fade July 34
 Substitute Odorant Elusive, Symposium Attendees Are Told Nov. 32
 Two LPG Marketers Settle Claims In Vermont Court Apr. 18

LOAD BUILDING

All The Hot Water You Need In A Jiffy Oct. 36
 At Barnett's, Propane And Towing Mix May 47
 Here's Some News From The Grapevine: Propane Use Stays High At
 Wineries Oct. 23
 Hot Water Generator Helps Save Trout Farm Oct. 36
 Leisure-Minded Americans Can Choose From Variety Of LPG Outdoor
 Products Feb. 25
 Manufacturers, Users Relate Engaging Tales Of LPG Applications . . . Aug. 29
 Propane Delivery System Puts Sizzle In Food Brought To Your
 Doorstep May 41
 Spending One Fine Day On The Road With A Bluegrass Country
 Marketer Oct. 29
 With A Possible Phase-Out Of Freon, LP-Gas Refrigerators Could
 Get Hot June 34

MANAGEMENT

"Compulsive" Nails Down How Much Heat Is Going Up The Tubes . . . Oct. 37
 Marketers Report Disturbing Increase In Past-Due Money Owed By
 Customers Oct. 27
 Survey Reveals Marketers' Belief That They're Better Prepared Now . . . Oct. 34
 When Going Out On Your Own, It's The Folks Down The Road
 Who Mean A Lot May 37
 Which Crisis Was Worse—'73 or '89? Oct. 35
 Younger Propane Marks 25 Years With Memory Of Unheard-Of
 Prices May 42

MARKETING

Dakota Marketer Works Out Unusual Plan With Heating Contractors . . . Sept. 30
 Distinctive Gas Marketing Campaign Takes Firm Hold Throughout
 Southeast Oct. 26
 Dual-Fuel Marketer Keeps LPG And Natural Gas Rivals On Their
 Toes July 27
 Ducane Unveils New Grill Features At National Distributor Meeting . . . Nov. 25
 Koala Bears, Kangaroos, And Propane Welcome Customers To The
 "Outback" March 39
 More Than 800 LP-Gas Marketers Help Make "The Great Payoff"
 A Success Feb. 23
 Texaco Cranks Up New Tank Cars And TOPS Program In Concerted
 LPG Push Aug. 23
 Texas LP-Gas Dealer Shows How To Make Most Of County Fair
 Exposure Dec. 30

NEWS—ACQUISITIONS

| | |
|---|----------|
| AmeriGas Sets Acquisitions Budget Of \$55 Million/Year Through 1995 | May 24 |
| Ferrellgas Blames Lower Sales For Layoffs, Continues Acquisitions | April 16 |
| Ferrellgas Continues Ambitious Acquisitions Program | Oct. 16 |
| GATX Acquires Unitank's Worldwide Bulk Liquid Storage | May 24 |
| Last Minute Change For Locke Home Products | Oct. 14 |
| Manchester Acquires Buckeye Boiler | March 20 |
| Superior's U.S. Purchase Moves Company To No. 3 In Sales | Sept. 12 |
| UGI Unit to Buy Propane Business From Prudential | Dec. 10 |
| Vision Energy Set For Florida Acquisitions | April 38 |

NEWS—OTHER

| | |
|--|----------|
| After Initial Period Of Frenzy, Global Gas Readies For Market Impact | June 26 |
| AGA Files For OSHA Recognition Of Laboratories | Jan. 12 |
| Alternative Fuel And Public Image Anxieties Surface At Board Meeting | March 25 |
| ANSI Subcommittee Holds Off On Quick-Disconnect Mandate | May 20 |
| Apartment Complex In Vermont Switching To Propane | Sept. 15 |
| Arizona LP-Gas Industry Wants State Control | April 12 |
| Attorneys General Want Another Probe Of December Fuel Crisis | May 18 |
| Australian Test Of LNG-Fueled Train Is Positive | Jan. 12 |
| Bay Area Ordeal: Propane Becomes A Life Saver For Quake Victims | March 35 |
| Business Picking Up In Missouri? | Oct. 14 |
| Business Uptum In South Brings Surprising Wintertime Conversions | July 28 |
| Butane Demand Brighter Than Some May Think | Oct. 18 |
| California Moves To Cut LPGs As Aerosol Propellants | Jan. 11 |
| Canada's Home Oil To Sell Oil And Gas Properties | Feb. 9 |
| Canadian Consumer Safety Bureau Withdraws Approval Of Fireplaces | June 12 |
| Canadian Symposium's Theme Built On Era Of Cooperation | Sept. 30 |
| Clean Air Bill Clears Senate Hurdle | May 18 |
| Congressional Hearings Elicit Few Major Oil Company Responses | March 18 |
| CPSC Commission Chairman Spot Filled | Jan. 11 |
| CPSC Conducting Study On NG and LPG Appliance Fires | Nov. 12 |
| CPSC Issues Warning: Don't Use Servel Gas Refrigerators | Nov. 7 |
| CPSC Now Checking Into Dangers Posed By Unserviced Refrigerators | Oct. 14 |

Deadly Tornado Puffs Off Outrageous Stunts With Propane Tanks and Valves

| | |
|--|----------|
|Nov. 31 | |
| Demand For MTBE Fuels Expansion Plans For Iso-Butane | Sept. 16 |
| DOE Looking For New Propane Distillation Methods | Sept. 11 |
| DOT Delays Tank Truck Rules Until June | Feb. 11 |
| Earnings Down, Trouble At Suburban And Petrolane? | Oct. 21 |
| Electric Utility Plays Fast And Loose With Truth | April 20 |
| Electric Utility Promoting "Worry-Free Plan" With Water Heater | July 8 |
| Empire Gas Ordered To Conform To Price Contract | April 16 |
| EPA Sues Duhut Over Emission Control Equipment | Nov. 14 |
| Ethanol/Gasoline Mix Will Increase Smog, Study Says | July 8 |
| Fast Response By Maine Association Keeps Government From Intervening | March 31 |
| 40-Year Partnership Celebrated By GATX And Union Carbide | Jan. 11 |
| Free Market Best, Burroughs Says; Government Cooperation Needed | Sept. 11 |
| Grand Jury Charges Propane Tank Dealer With Felonies | Dec. 12 |
| Harried LP-Gas Marketers Recount The Recent Price/Supply Nightmare | Feb. 20 |

| | |
|--|----------|
|Sept. 11 | |
| Hazmat Provision On Propane Struck From Legislation | Sept. 11 |
| Heat Pump Advertising Brings Heat To Utility | March 20 |
| Leak Detector Issues Still Unresolved | May 20 |
| LPG Supplies Continue Upward Growth Through 2005 | Jan. 11 |
| LP-Gas Marketers Nationwide Reveal Hardships Encountered During Crisis | April 33 |

| | |
|--|---------|
| Marathon Petroleum Completes \$37-Million Plant Addition | Jan. 11 |
|--|---------|

| | |
|---|----------|
| Marketers' Letter-Writing Efforts Alter DOT Position On "Wet Lines" | April 14 |
|---|----------|

| | |
|--|---------|
| Massachusetts Contractor Wins Vancouver Island Pipeline Contract | Jan. 12 |
|--|---------|

| | |
|---|----------|
| Minimum Delivery Tariffs Posted At Enron Terminal | Sept. 14 |
|---|----------|

| | |
|--|--------|
| Morgan Auto Importer Seeks Safety Rule Exemption | May 22 |
|--|--------|

| | |
|--|----------|
| Moving A Tank With Over 5% Liquid Is A "No-No" | April 14 |
|--|----------|

| | |
|---|---------|
| Nebraska LPG Association Fires Back Against Campaign By Natural Gas Co. | July 32 |
|---|---------|

| |
|--------------|
|June 16 |
|--------------|

| | |
|---|--------|
| NPGA Happy With Direct Membership, Sees More Growth | May 22 |
|---|--------|

| | |
|--|----------|
| NPGA Political Maneuvering Due To Middle East Crisis | Sept. 12 |
|--|----------|

| | |
|---|---------|
| NPGA Steps Up Efforts For Winter Planning | Nov. 11 |
|---|---------|

| | |
|--|---------|
| NPGA Urges Feds To Develop Close Winter Coordination With Industry | Oct. 16 |
|--|---------|

| | |
|---|----------|
|May 49 | |
| NYMEX Probably Won't Close If There Is A War | Dec. 12 |
| PGANE Holds Successful Seminar On Emergency Response Training | Dec. 14 |
| Problems Of An Arctic Freeze Send Propane Prices To New Highs | Feb. 17 |
| 'Promote LP-Gas As A Clean-Burning Fuel,' NPGA Says | Aug. 12 |
| Record Cocaine Haul Found In Propane Truck Crossing Border | Nov. 14 |
| Safety And Marketing Awards Bestowed At NPGA Expo | June 12 |
| Salvatore Pastore Resigns As President Of Suburban Propane | July 10 |
| So. California Ousts Lighter Fluid And Pre-Soaked Briquettes | Nov. 12 |
| Some States Offering Emergency Response Service | Sept. 11 |
| Spread Of Natural Gas Lines In Arkansas Hurts LPG Marketers | |

| | |
|------|----------|
| Anew | Sept. 34 |
|------|----------|

| | |
|--|----------|
| States Jumping On Bandwagon Looking For More Control | April 12 |
|--|----------|

| | |
|--|---------|
| Suburban Reduces Service Areas, Reorganizes Upper Management | Dec. 10 |
|--|---------|

| | |
|--------------------------------------|--------|
| Tank Insurance Rules Still In Effect | Feb. 9 |
|--------------------------------------|--------|

| | |
|--|---------|
| Trucking Industry Fuels Study Finds LPG Compares Favorably | Aug. 12 |
|--|---------|

| | |
|-------------------------------------|--------|
| Trucking Institute Joins ATF Search | Feb. 9 |
|-------------------------------------|--------|

| | |
|---|---------|
| UGI Reports Substantial Growth Of Propane Business Since 1986 | Dec. 10 |
|---|---------|

| | |
|--|---------|
| WLGA Hustles To Exceed Accomplishments | July 10 |
|--|---------|

| | |
|--|---------|
| WLGA Move Short Circuits A Local Government's Action | Aug. 14 |
|--|---------|

| | |
|--------------------------------|---------|
| WLGA PAC Kicks Off Fundraising | Apr. 20 |
|--------------------------------|---------|

| | |
|---|----------|
| World LPG Forum Has First Call For Papers | March 18 |
|---|----------|

REGULATORY

| | |
|---|---------|
| CDL Programs Underway Throughout States | June 37 |
| Essential DOT Rules Outlined By Jim Burroughs At WLGA Forum | June 42 |
| Hazardous Material Awareness: It Ain't Quite What It Used To Be | July 21 |
| Hazardous Material Carriers Pass Deadline With Questions | June 25 |
| New York Association Demonstrates Value Of Close Legislative Ties | Aug. 27 |
| Opposition To Hazmat Database Mounts | June 37 |
| Tennessee Marketers Strive to Avert Their Legislators' Magnifying Glass | July 30 |

SAFETY

| | |
|---|----------|
| Agway Hunts High And Low To Give New Life To Long-Lost Cylinders | March 42 |
| Arriving In Los Angeles, Chevron's "Safety Train" Keeps On Chugging | Jan. 23 |
| Concern Voiced On Cylinder Exchanges | July 28 |
| Fisher Demonstrates How To Keep Workplace Accidents Under Control | April 38 |
| Hard-Hitting Plan To Enhance Cylinder Refilling Safety Earns High Grades | July 17 |
| "Intelligent" Bobtails Can Take Over When The Human Mind Forgets | April 31 |
| Just In Time For Summer: New Videotape On Barbecue Safety | April 39 |
| "National Propane Safety Week" Caps Fifth Anniversary Of GAS Check | Sept. 23 |
| Upgrading Transports Big And Small, Anderson Helps "Add Value To Vessels" | May 45 |

SUPPLY AND DEMAND

| | |
|--|---------|
| Energy Information Administration Begins Monitoring Propane Supply | Oct. 41 |
| Keep Your Fingers Crossed For Adequate Winter Supplies | Nov. 37 |
| NPGA Directors Air Views On Propane Inventory And Prices | Nov. 28 |
| NPGA Task Force: Things May Be Better Than They Seem | Nov. 29 |

TECHNICAL

| | |
|--|----------|
| California Water Authorities Approve Propane For Cloud Seeding In Winter | Jan. 24 |
| Dutch Company Develops New Valve To Solve Liquid Discharge Problem | Nov. 27 |
| High-Capacity Heating System Brings Propane Right Into ECII's New Plant | May 29 |
| How One Million Gallons Of Propane Helps Create Cherished Works Of Art | May 43 |
| Innovative Machine Promises New Level Of Accuracy In 12-Year Tests | June 23 |
| New Butane Isomerization Unit Is Unveiled By Andrews Petroleum | June 21 |
| New Pest Control Process Uses Propane Heaters To Obliterate Indoor Insects | Feb. 30 |
| Propane Helps Meet The Demands Of Macadamia Nut And Cookie Monsters | April 40 |
| Vapor Extraction Machine Hailed For Its Gasoline Cleanup Ability | May 40 |

